

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of: )  
James Mac Freitag et al. ) Group Art Unit: Unassigned  
Application No. Unassigned ) Examiner: Unassigned  
Filed: Herewith ) Atty. Docket No. HIT1P027/  
For: IMPROVED SPIN VALVE PROPERTIES ) HSJ9-2003-0150US1  
Date: November 19, 2003  
\_\_\_\_\_) CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as Express Mail in an envelope addressed to: Commissioner for Patents, Alexandria, VA 22313-1450 with label number EV395032517US on November 19, 2003.

Signed: Erica L. Farlow  
Erica L. Farlow

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §§ 1.56 AND 1.97(b)

Mail Stop Patent Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

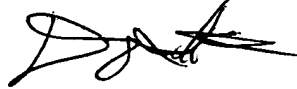
Dear Sir:

The references listed in the attached PTO Form 1449, copies of which are attached, may be material to examination of the above-identified patent application. Applicants submit these references in compliance with their duty of disclosure pursuant to 37 CFR §§ 1.56 and 1.97. The Examiner is requested to make these references of official record in this application.

This Information Disclosure Statement is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that these references indeed constitute prior art.

This Information Disclosure Statement is believed to be filed before the mailing date of a first Office Action on the merits. Accordingly, it is believed that no fees are due in connection with the filing of this Information Disclosure Statement. However, if it is determined that any fees are due, the Commissioner is hereby authorized to charge such fees to Deposit Account 50-2587 (Order No. HSJ9-2003-0150US1/HIT1P027).

Respectfully submitted,  
Silicon Valley IP Group, PC

A handwritten signature in black ink, appearing to read 'D. Kotab', with a stylized flourish extending to the right.

Dominic M. Kotab  
Reg. No. 42,762

P.O. Box 721120  
San Jose, CA 95172-1120  
Telephone: (408) 971-2573

<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  (Use Several Sheets if Necessary)	Atty. Docket No. HIT1P027 / HSJ9-2003-0150US1	Application No.: Unassigned
	Applicant: J. Mac Freitag et al.	Group Art Unit: Unassigned
	Filing Date: Herewith	

**U.S. Patent Documents**

Examiner Initial	No.	Patent No.	Date	Patentee	Class	Sub-class	Filing Date
	A	2003/0035253	02/20/2003	Lin et al.	360	324	08/17/2001
	B	2002/0085320	07/04/2002	Gill	360	324.11	01/04/2001
	C	6,143,380	07/02/2002	Pinarbasi	204	192.11	08/14/2000
	D	6,404,606	06/11/2002	Pinarbasi	360	324.11	11/05/1999
	E	2002/0048127	04/25/2002	Fukuzawa et al.	360	324.1	09/04/2001
	F	6,317,299	11/13/2001	Pinarbasi	360	324.11	02/17/2000
	G	6,086,727	07/11/2000	Pinarbasi	204	192.11	06/05/1998
	H	6,063,244	05/16/2000	Pinarbasi	204	192.11	05/21/1998
	I						
	J						
	K						
	L						

**Foreign Patent or Published Foreign Patent Application**

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
	M	11-144956	28.05.1999	Japan	H01F	10/16	X	
	N	9069211	11.03.1997	Japan	G11B	5/39	X	
	O							
	P							

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
	R	Lee, W. Y. et al., "Effects of Mn Concentration and Deposition Temperature on the Giant Magnetoresistive Properties of Ion-Beam-Deposited PtMn Spin Valves", IEE Transactions on Magnetism, Vol. 38, No. 5, September 2002
	S	Sant, S. et al., "Giant Magnetoresistance in Ion Beam Deposited Spin-Valve Films with Specular Enhancement", Journal of Applied Physics, Volume 89, Number 11, June 1, 2001.
	T	
Examiner		Date Considered

Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.